



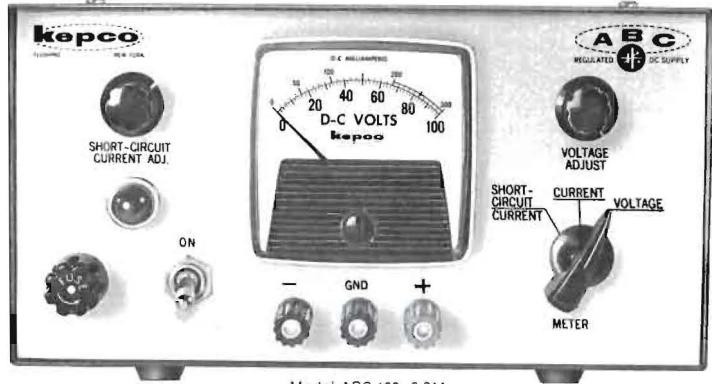
# KEPCO

## ABC

### ALL-TRANSISTOR POWER SUPPLIES

- voltage and current regulation
- 10-turn voltage control
- operationally programmable

*Oops! we goofed... model ABC 100-0.2M  
(the 0-100 volt/0.200mA unit) is still  
available! Please insert this sheet  
between pages 6-7 of the Catalog B-678*



Model ABC 100-0.2M

MODEL	DC OUTPUT RANGE		RIPPLE (MAX.) RMS mV	OUTPUT IMPEDANCE Ohms + Microhenries			MAX. INPUT AMPS at 125 V AC
	VOLTS	AMPS		DC to 100 cps	100 cps to 1kc	1 kc to 100 kc $\mu$ h	
ABC 2-1M	0-2	0-1	0.25	0.001	0.01	0.1 + 0.5	0.3
ABC 7.5-2M	0-7.5	0-2	0.25	0.002	0.01	0.05 + 0.5	0.5
ABC 10-0.75M	0-10	0-0.75	0.25	0.007	0.02	0.1 + 1	0.3
ABC 15-1M	0-15	0-1	0.25	0.008	0.01	0.05 + 0.5	0.5
ABC 18-0.5M	0-18	0-0.5	0.25	0.02	0.02	0.1 + 1	0.3
ABC 30-0.3M	0-30	0-0.3	0.25	0.05	0.02	0.1 + 1	0.3
ABC 40-0.5M	0-40	0-0.5	0.25	0.04	0.02	0.05 + 0.5	0.5
ABC 100-0.2M	0-100	0-0.2	0.25	0.25	0.05	0.05 + 1	0.5

SPECIFICATION	VOLTAGE MODE	CURRENT MODE** (External Sensing)	
		0-100% $E_0$ max.	1 mA to 100% $I_0$
OUTPUT RANGE			
REGULATION, LINE	<0.05% or 1 mV*	<0.1% at rated sample**	
REGULATION, LOAD	<0.05% or 1 mV*	<0.5% at rated sample**	
STABILITY (8 HR.)	<0.05% or 3 mV*	<0.1% or 1 mA*	
TEMP. COEFFICIENT	<0.05% per $^{\circ}$ C	<0.1% per $^{\circ}$ C at rated sample**	
RIPPLE, rms	<0.25 mV	<0.1% of $I_0$ max.	

\*whichever is greater

\*\*Rated sample is 1V DC across external current sampling resistor, with external current control.

**INPUT:** 105-125V AC or 210-250V AC (selected), 50-440 cps, single phase

**TEMPERATURE, AMBIENT OPERATING:** -20 $^{\circ}$ C to +50 $^{\circ}$ C.

**TEMPERATURE, STORAGE:** -40 $^{\circ}$ C to +85 $^{\circ}$ C.

**COOLING:** Convection.

**ISOLATION VOLTAGE:** 500 volts to chassis.

**CONTROL RESOLUTION:** 0.05%, 10-turn voltage control.

**PROGRAMMING:** 1 mA control current, by resistance at 1000 ohms per volt. May be controlled operationally as an amplifier using voltage or current signals; common negative.

**VOLTAGE RECOVERY: (for step load current):** <50 microseconds.

**CURRENT LIMITING:** Single turn panel adjustment sets limit from 25% to 150% of rated full current.

**REMOTE ERROR SENSING:** Compensates up to 0.5V drop per output lead.

All terms used in the specifications are defined in the Kepco Glossary on Page 33.

Data subject to change without notice  
PATENT NOTICE: Applicable Patent Nos. will be supplied on request.

**OVERSHOOT: (Turn-on/off):** None above 25% voltage setting. Negligible below 25% when preloaded to 10% minimum.

**SERIES/PARALLEL:** Series operation to rated isolation; also master/slave capability. Current limiting design permits self-determined parallel load sharing.

**METERS:** The suffix "M" designates a single dual scale voltmeter, 2 1/2", 2%, with selector switch. Delete suffix for un-metered unit.

**TERMINALS:** Binding posts on front panel, plus, minus and ground. Multi-terminal barrier strip at rear contains output, sensing and control terminals.

**DIMENSIONS:** 4 1/4" H x 8 3/4" W x 9 5/8" D for Models ABC 7.5-2M, ABC 15-1M, ABC 40-0.5M and ABC 100-0.2M; 4 1/4" H x 8 3/4" W x 5 5/8" D for Models ABC 2-1M, ABC 10-0.75M, ABC 18-0.5M and ABC 30-0.3M.

**FINISH:** Panel: etched aluminum; Case: gray hammertone.

**MOUNTING:** Bench style. Rack mounting adapter for single or dual mounting available. See Accessory pages.

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